

**ABSTRACT**

A power distribution and control system for a military vehicle comprises a power source, a power transmission link, a plurality of input and output devices, a plurality of microprocessor-based interface modules, and a communication network that interconnects the interface modules. The interface modules are also each coupled to respective local subsets of the input and output devices so as to permit distributed data collection from the input devices and distributed power distribution to the output devices. Each of the interface modules collects input status information from the respective local subset of the input devices and broadcasts the input status information over the communication network to each of the remaining ones of the interface modules. Each of the remaining ones of the interface modules receive the input status information and locally store the input status information.